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. CONFIRMATION NO.
3121
AMINER
, CHARANJIT
PAPER NUMBER
,

DATE MAILED: 12/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/647,544	MAKRIYANNIS ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Charanjit S. Aulakh	1625	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1) 又	1) Responsive to communication(s) filed on <u>21 November 2005</u> .			
2a)□				
3)	/-			
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
4)⊠	4)⊠ Claim(s) <u>2,5,11,13-20,26,28-31,42 and 44</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
	5) Claim(s) is/are allowed.			
·	6)⊠ Claim(s) <u>11,14-20,26,29-31,42 and 44</u> is/are rejected.			
	Claim(s) <u>2, 5, 13 and 28</u> is/are objected to.	,00.00.		
	8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment 1) Notice 2) Notice 3) Inform		4)	(PTO-413)	

DETAILED ACTION

- 1. According to paper filed on Nov. 21, 2005, the applicants have filed a RCE and furthermore, have canceled claims 1, 3, 4, 6-10, 12, 21-25, 27, 32-41 and 43 and amended claims 2, 5, 11, 13, 15-20, 26, 28, 30, 31 and 44.
- 2. Claims 2, 5, 11, 13-20, 26, 28-31, 42 and 44 are now pending in the application.

Response to Arguments

3. Applicant's arguments with respect to claims 2, 5, 11, 13-20, 26, 28-31, 42 and 44 have been considered but are moot in view of the new ground(s) of rejection.

NEW GROUNDS OF REJECTION

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claim 11 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 11 as amended is directed to exciting the cannabinoid compound with electromagnetic radiation; and detecting the electromagnetic radiation.

This is new matter since there is no written description in the specification regarding

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exciting the cannabinoid compound with electromagnetic radiation and detecting electromagnetic radiation emitted by the cannabinoid compound.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 11, 14-20, 26, 29-31, 42 and 44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 11, 15, 16, 20, 26, 30 and 31, the values of variables Q1 and Q2 defined as ---Q1 and Q2 together comprise part of a heterocyclic ring or comprise part of an imide
ring---- is indefinite since it is not clear whether Q1 and Q2 together with the N atom to
which they are attached form a heterocyclic ring or heterocyclic ring is attached to the N
atom? Also, the meaning of ----imide ring—is not clear. Is it different from the
heterocyclic ring?

In claims 11, 14-16, 20, 26, 29, 30 and 31, the value of variable T2 defined as ---a substituent group ---- is indefinite since specific groups are not defined.

In claim 17, the term ---a test sample ---- is indefinite since its meaning and the actual intent is not clear.

In claims 18 and 19, the term ---interacting ---- is indefinite since it is not clear which cannabinoid receptor is being reffered here and furthermore, which cannabinoid receptor is being agonized or antagonized?

In claims 42 and 44, the term ----from claim 26 ---- is vague. The applicants are suggested to use the term ---of claim 26 ----.

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In claim 44, it is not clear how to stimulate one of the CB1 and CB2 cannabinoid receptors following in vivo administration of instant compound since it will affect both the receptors. Do the instant compounds act as agonists at one of these two receptor subtypes and as an antagonists at the other sreceptor subtype?

Claim 11 provides for the use of a fluorescent cannabinoid compound, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 9. Claim 11 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is

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(571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571)272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charanjit S. Aulakh Primary Examiner Art Unit 1625